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(54) Title: PURIFIED AND ISOLATED HEPARAN SULFATE 3-O-SULFOTRANSFERASE ISOFORM 5 NUCLEIC ACIDS AND POLYPEPTIDES AND THERAPEUTIC AND SCREENING METHODS USING SAME

(57) Abstract: 3-OST-5 proteins, and nucleic acid molecules encoding the same. Recombinant host cells, recombinant nucleic acids and recombinant proteins are also disclosed, along with methods of producing each. Isolated and purified antibodies to 3-OST-5 homologs, and methods of producing the same, are also disclosed. 3OST-5 gene products have biological activity in specific heparan sulfate 3-O-sulfotransferase reactions. These reactions provide unique modified heparan sulfate. Thus, therapeutic methods involving this activity are also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21094

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21094

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This	internatio	onal report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	\boxtimes	Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claim 12 is unsearchable because it recites a dependency to claim 111. Claim 111 does not exist in the instant application.
3.	\boxtimes	Claim Nos.: 12 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box	II O	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This	Internat	ional Searching Authority found multiple inventions in this international application, as follows:
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1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Re	mark or	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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